

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2013 Levee Inspection Results****Sacramento Maintenance Yard Willow Slough Bypass**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Sacramento Maintenance Yard Willow Slough Bypass

Waterway			Bank	Unit Miles
Unit No. 01 Willow Slough Bypass or North Levee			Left	5.09
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	-			
DWR Inspector	John Williamson			
Accompanied By	Casey Lund Sacramento Maintenance Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sacramento Maintenance Yard Willow Slough Bypass

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee							Left	5.09		John Williamson
LMR No.	Levee Mile		Category	Item	* Location	** Rating +	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1				Operations & Maintenance Manuals	LS	A Ma		° °	° °	6
DWR ID: DWR_ST0012_01_s_2013_6										
2				Emergency Supplies & Equipment	LS	A Ma		° °	° °	7
DWR ID: DWR_ST0012_01_s_2013_7										
3				Flood Preparedness & Training	LS	A Ma		° °	° °	8
DWR ID: DWR_ST0012_01_s_2013_8										
4	0.02	0.15		Vegetation	CR	M En	V6 : Landscaping Inspector Comments: This is the treatment plant's landscaping and chain link fence.	38.590742 ° -121.665767 °	38.590716 ° -121.668203 °	1 Y
DWR ID: DWR_ST0012_01_s_2012_1										
5	0.07	0.21		Cracking	WS	M Ob	CR1 : Monitor and have inspected by geotechnical engineer.	38.590724 ° -121.666749 °	38.590663 ° -121.669190 °	10 Y
DWR ID: DWR_ST0012_01_f_2012_10										
6	0.34	0.36		Cracking	WS	C Ma	CR1 : Monitor and have inspected by geotechnical engineer.	38.590610 ° -121.671603 °	38.590600 ° -121.672082 °	2
DWR ID: DWR_ST0012_01_s_2012_2										
7	0.67	5.06		Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.590502 ° -121.677670 °	38.599966 ° -121.752965 °	12 Y
DWR ID: DWR_ST0012_01_s_2013_12										
8	0.67	5.06		Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.590502 ° -121.677670 °	38.599966 ° -121.752966 °	11 Y
DWR ID: DWR_ST0012_01_s_2013_11										
9	4.16	4.63		Encroachments	LS	M En	DT : Ditch	38.597093 ° -121.737883 °	38.599857 ° -121.745158 °	4 Y
DWR ID: DWR_ST0012_01_s_2012_4										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.09		John Williamson

Levee Mile Report Line	4
Start Levee Mile	0.02
End Levee Mile	0.15
Location	Crown
Category	
Item	Vegetation

The treatment plant's landscape and fence. This runs along the crown and toe of the levee.

johngw_s_20130221_770.jpg



Levee Mile Report Line	4
Start Levee Mile	0.02
End Levee Mile	0.15
Location	Crown
Category	
Item	Vegetation

Photo taken spring 2012, the treatment plants landscaping.

johngw_s_20130221_771.jpg



Levee Mile Report Line	5
Start Levee Mile	0.07
End Levee Mile	0.21
Location	Water Side
Category	
Item	Cracking

There is still cracking sloughing on the waterside crown. Attempts to fill in the cracks all along the roadway have been done.

johngw_s_20130221_781.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.09		John Williamson

Levee Mile Report Line	7
Start Levee Mile	0.67
End Levee Mile	5.06
Location	Water Side
Category	
Item	Vegetation
The grasses are taller than 12". Spring 2013	
johngw_s_20130422_961.JPG	



Levee Mile Report Line	8
Start Levee Mile	0.67
End Levee Mile	5.06
Location	Land Side
Category	
Item	Vegetation
The grasses are taller than 12". Spring 2013	
johngw_s_20130422_960.JPG	



Levee Mile Report Line	9
Start Levee Mile	4.16
End Levee Mile	4.63
Location	Land Side
Category	
Item	Encroachments
The agricultural ditch runs along the toe of the levee. Fall 2011	
johngw_s_20130221_776.jpg	

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Willow Slough Bypass or North Levee	Left	5.09		John Williamson

Levee Mile Report Line	9
Start Levee Mile	4.16
End Levee Mile	4.63
Location	Land Side
Category	
Item	Encroachments

Another view of the agricultural running along the toe of the levee. Fall 2011

johngw_s_20130221_777.jpg



Levee Mile Report Line	9
Start Levee Mile	4.16
End Levee Mile	4.63
Location	Land Side
Category	
Item	Encroachments

Photo taken spring 2012, agricultural ditch along landside toe.

johngw_s_20130221_778.jpg



*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Sacramento Maintenance Yard Willow Slough Bypass

Waterway			Bank	Unit Miles
Unit No. 02 Willow Slough Bypass or South Levee			Right	7.37
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	-			
DWR Inspector	John Williamson			
Accompanied By	Casey Lund Sacramento Maintenance Yard			

Summer & Winter Inspections

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Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sacramento Maintenance Yard Willow Slough Bypass

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee				Right	7.37		John Williamson

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1	0.00	7.37		Vegetation	WS A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.599090 ° -121.753250 °	38.574668 ° -121.638977 °	7 Y
							DWR ID: DWR_ST0012_02_s_2013_7		
2	0.00	7.37		Vegetation	LS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.599090 ° -121.753250 °	38.574668 ° -121.638977 °	11 Y
							DWR ID: DWR_ST0012_02_s_2013_11		
3	1.71	1.71		Erosion / Bank Caving	WS M Ma	E1 : Note and monitor erosion site.	38.589966 ° -121.727072 °	38.589966 ° -121.727072 °	8 Y
							DWR ID: DWR_ST0012_02_s_2012_8		
4	1.86	1.86		Encroachments	WSA/W PI Ma	PI : Pipe	38.589923 ° -121.724187 °	38.589923 ° -121.724187 °	1 Y
							DWR ID: DWR_ST0012_02_s_2012_1		
5	1.86	1.86		Erosion / Bank Caving	WS M Ma	E1 : Note and monitor erosion site. Inspector Comments: The owner of the pipe has placed two pipes in the channel. This is to pond the water for irrigation. It is possible that this started the erosion of the bank.	38.589922 ° -121.724185 °	38.589922 ° -121.724185 °	3 Y
							DWR ID: DWR_ST0012_02_s_2012_3		
6	1.97	1.97		Erosion / Bank Caving	WS M Ma	E1 : Note and monitor erosion site.	38.589906 ° -121.722218 °	38.589906 ° -121.722218 °	5 Y
							DWR ID: DWR_ST0012_02_s_2012_5		
7	2.66	2.66		Erosion / Bank Caving	WS M Ma	E1 : Note and monitor erosion site. Inspector Comments: The erosion is starting to encroach into the toe road.	38.589714 ° -121.709456 °	38.589714 ° -121.709456 °	9 Y
							DWR ID: DWR_ST0012_02_s_2012_9		
8	2.90	2.90		Erosion / Bank Caving	WS M Ma	E1 : Note and monitor erosion site. Inspector Comments: The site has a discharge pipe and has begun eroding around the pipe. It is also eroding into the toe road.	38.589707 ° -121.705044 °	38.589707 ° -121.705044 °	10 Y
							DWR ID: DWR_ST0012_02_s_2012_10		
9	3.56	3.56		Encroachments	LS A/W En	BU : Building Inspector Comments: Control structure for Davis Drain, block building.	38.589657 ° -121.692850 °	38.589657 ° -121.692850 °	2 Y
							DWR ID: DWR_ST0012_02_s_2012_2		

*** Location**

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+ Issue Type

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.37		John Williamson

Levee Mile Report Line	1
Start Levee Mile	0.00
End Levee Mile	7.37
Location	Water Side
Category	
Item	Vegetation
The grasses are shorter than 12". Spring 2013	
johngw_s_20130422_963.JPG	



Levee Mile Report Line	2
Start Levee Mile	0.00
End Levee Mile	7.37
Location	Land Side
Category	
Item	Vegetation
The grasses are taller than 12". Spring 2013	
johngw_s_20130422_962.JPG	



Levee Mile Report Line	3
Start Levee Mile	1.71
End Levee Mile	1.71
Location	Water Side
Category	
Item	Erosion / Bank Caving
Erosion on the edge of the channel. Fall 2012	
johngw_s_20130221_788.jpg	



* Location	** Rating	+ Issue Type
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CR : Crown	N : Not Inspected/Rated	En : Enforcement
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	
	U : Unacceptable	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.37		John Williamson

Levee Mile Report Line	4
Start Levee Mile	1.86
End Levee Mile	1.86
Location	Water Side
Category	
Item	Encroachments

A pipe crossing thru the levee and blocking toe road. Fall 2011

johngw_s_20130221_782.jpg



Levee Mile Report Line	5
Start Levee Mile	1.86
End Levee Mile	1.86
Location	Water Side
Category	
Item	Erosion / Bank Caving

Erosion on the edge of the channel. Fall 2012

johngw_s_20130221_784.jpg



Levee Mile Report Line	6
Start Levee Mile	1.97
End Levee Mile	1.97
Location	Water Side
Category	
Item	Erosion / Bank Caving

Erosion on the edge of the channel. Fall 2012.

johngw_s_20130221_786.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.37		John Williamson

Levee Mile Report Line	7
Start Levee Mile	2.66
End Levee Mile	2.66
Location	Water Side
Category	
Item	Erosion / Bank Caving

Photo taken spring 2012, the erosion encroaches into the toe road.

johngw_s_20130221_789.jpg



Levee Mile Report Line	7
Start Levee Mile	2.66
End Levee Mile	2.66
Location	Water Side
Category	
Item	Erosion / Bank Caving

Erosion on the edge of the channel. Fall 2012

johngw_s_20130221_790.jpg



Levee Mile Report Line	8
Start Levee Mile	2.90
End Levee Mile	2.90
Location	Water Side
Category	
Item	Erosion / Bank Caving

The slope around the discharge pipe is eroding the toe road. Rip rap could be placed around the pipe and re-sloped. Fall 2011

johngw_s_20130221_791.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Sacramento Maintenance Yard Willow Slough Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Willow Slough Bypass or South Levee	Right	7.37		John Williamson

Levee Mile Report Line	9
Start Levee Mile	3.56
End Levee Mile	3.56
Location	Land Side
Category	
Item	Encroachments
A control structure is placed on top of the levee. Fall 2011	
johngw_s_20130221_783.jpg	



* Location	** Rating	+ Issue Type
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